

7500031

WHIE UNIVERD SHAVES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Asgrow Seed Company

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF SCUENCE YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT ARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT TAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Dash'

In Lestimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this first day of May in

the year of our Lord one thousand nine hundred and seventy-five

TO THE

Commissioner
Plant Variety Protection Office
Grain Division

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Agricultural Marketing Scroice

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(DATE)

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.						
1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	2- KIND NAME		FOR OFFICIAL USE ONLY		
DASH (XPS11)	Pea			7500031		
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Bot	4. FAMILY NAME (Botanical)		TIME P.M.		
	Leguminosa	e .	FEE RECEIVED	BALANCE DUE		
Pisum sativum		S. DATE OF DETERMINATION		\$		
	1967	1967		\$		
6. NAME OF APPLICANT(S)	7. ADDRESS (Street at	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP				
	·	Code) CODE AND NUMBER				
Asgrow Seed Company		7000 Portage Road Kalamazoo, Michigan 49001		(616)382-4000		
,						
9. IF THE NAMED APPLICANT IS NOT A F ORGANIZATION: (Corporation, partnershi		10. STATE OF INCOF	PORATION	11. DATE OF INCOR- PORATION		
corporation		Delaware		March 22, 1968		
12. Name and mailing address of appl	licant representative(s), if any, to serve	in this application a	nd receive all papers:		
· · · · · · · · · · · · · · · · · · ·	9001					
13. CHECK BOX BELOW FOR EACH ATTA			THE PARTY OF THE P			
X 13A. Exhibit A, Origin and Br	eeding History of the	Variety (See Section	on 52 of the Plant Va	triety Protection Act.)		
X 138. Exhibit B, Botanical De	scription of the Variet	у				
X 13c. Exhibit C, Objective Des	scription of the Variet	y				
🔀 130. Exhibit D, Data Indicati	ve of Novelty			•		
X 13E. Exhibit E, Statement of	the Basis of Applicant	's Ownership				
14A. Does the applicant(s) specify the (See Section 83(a), (If "Yes,")	answer 14B and 14C b	elow.)	YES X NO	<u>. </u>		
148. Does the applicant(s) specify the		14C. If "Yes," to beyond breed		erations of production		
limited as to number of generati	ions?	beyond breed	_	CERTIFIED		
The applicant declares that a viable ance of a certificate and will be rep						
The undersigned applicant(s) of the uniform, and stable as required in Plant Variety Protection Act.	his sexually-reproduce	d novel plant varie	ty believes that the	variety is distinct,		
Applicant is informed that false re	presentation herein ca	n jeopardize protec	ction and result in po	enalties.		
October 14 1974		Allen Trothic (SIGNATURE OF APPLICANT)				
			4	I		

(SIGNATURE OF APPLICANT)

EXHIBIT A

Origin and Breeding History of DASH (XP-S11)

1960--Original cross Sprite x Jet

1961--F₁ was grown

1962--F₂ was grown

 $1963--F_{2}$ was grown and single plant selections were made

 $1964--F_4$ was grown and single plant selections were made.

 $1965--F_5$ was grown and mass selected

 $1966--F_{6}$ was grown and single plant selections made

1967--F, was grown for small increase Observation and yield trials Designated XP-X11

1968--Trials and increase

1969- Trials, mass selection and increase

1973 There were the usual off-types and segregates including steriles in early increases. There were no destructive and persistent off-types in the later increases. The variety has been stable since 1968.

Named Dash in 1973.

EXHIBIT B

Botanical Description of DASH (XP-S11)

Dash is a very early freezer pea which averaged two days later than Sprite at Twin Falls in three years' trials. Dash has considerably more plant than would be expected for a very early pea. The mature plant height is approximately 60-65 cm. as an average over several seasons at Twin Falls, Idaho. The plants are determinate, medium in stockiness and normally flowers on the 11th node.

The leaflets are dark green, free of wax, marbled, and are borne in three or four pairs. The clasping stipules are the same color but larger than the leaflets. The flowers are white.

The dark green pods are straight, have a blunt end, a smooth, shiny surface and average seven seeds per pod. The pods are borne as doubles and singles.

At 95 tenderometer the seeds are round, dark green, and have a smooth shiny surface. The average sieve size for three years at Twin Falls was 3.68.

The mature seed is medium sized, dark green, with no secondary coloring and has green cotyledons.

Dash is resistant to Fusarium Wilt but has not been tested for resistance to other diseases.

Dash resembles Sprite in leaf color, pod color, pod shape, fresh seed color, mature seed color, and seed shape; but it differs from Sprite in that it has a much larger vine, is two days earlier, and the average sieve size is smaller.

Dash resembles Sparkle in leafiness and plant habit, but differs in that Dash has a taller plant, and smaller seed. In addition, Sparkle is much more susceptible to seed shattering.

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF VARIETY

PEA (PISUM SATIVUM)

NAME OF APPLICANT(S)	VARIETY NAME OR TEMPORARY			
ASGROW SEED COMPANY	DESIGNATION DASH (XP-S11)			
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)				
	FOR OFFICIAL USE ONLY			
	PVPO NUMBER			
	750003			
Place the appropriate number that describes the varietal character in the boxes because a zero in first box (e.s. 0 8 9 or 0 9) when number is either 99 or leading to the second of th				
1. TYPE:				
1 1 = GARDEN 2 = FIELD 3 = EDIBLE-PODDED	•			
2. MATURITY:				
	· ·			
1 1 Node number of first bloom: 0 7 5 No. of days to proces	ssing 1 2 4 5 Heat Units			
0 1 No. of days Earlier than 2 1 = ALASKA WR 2 = TH	OMAS LAXTON WR 3 = LITTLE MARVEL			
No. of days Later than	AN WR 6 = AUSTRIAN WINTER			
3. PLANT HEIGHT:	·			
0 6 0 cm. HIGH				
0 5 Cm. Shorter than	IOMAS LAXTON WR 3 = LITTLE MARVEL			
Cm. Taller than	AN WR 6 = AUSTRIAN WINTER			
4. VINE:				
4. VINE:				
1 Habit: 1 = DETERMINATE 2 = INDETERMINATE 2 Stockiness	1 = SLIM (Alaska) 3 = HEAVY (Alderman) 2 = MEDIUM (Thomas Laxton WR)			
Branching: 1 = NONE (Alaska) 2 - 1—2 BRANCHES (Little Marvel) 3 =	MORE THAN 2 BRANCHES (Dwarf Gray Sugar			
2 Internodes: 1 = STRAIGHT 2 = ZIG ZAG NUMB	ER OF NODES			
5. LEAFLETS:				
1 = LIGHT GREEN (Alaska WR) 2 = MED. GREEN (Thomas Laxton WR) 3 = DARK GREEN (Alderman) Color: 4 = OTHER (Specify)				
1 Wax: 1 = NONE 2 = LIGHT 3 = MEDIUM 4 = HEAVY 2 1 = NOT	MARBLED 2 = MARBLED (Alaska)			
	•			
Number of leaflet pairs: 1 = NOT PAIRED 2 = ONE 3 = TWO	4 = THREE OR MORE			
6. STIPULES:				
2 1 = LACKING 2 = PRESENT 2 1 = NOT	CLASPING 2 = CLASPING			
2 1 = NOT MARBLED 2 = MARBLED 3 Size (Com	1 = SMALLER 2 = SAME appared with leaflets): 3 = LARGER			
Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 = DARKER				
7. FLOWER COLOR:	•			
1 VENATION 1 STANDARD 1 WING 1 KEEL	1 = WHITE 2 = GREENISH 3 = LAVENDER 4 = PURPLE 5 = RED 6 = OTHER (Specify)			
· · · · · · · · · · · · · · · · · · ·				

INSTRUCTIONS

AGRICULTURE

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.
- 13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.
- 13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

		······································					
B, PODS:	T 2 = SLIGHTLY CURVED	□ - · · · · ·	n a follower for the				
1 Shape: 3 = CURVED		2 End: 1 = POINTED (Alderman					
131	REEN (Alaska WR) 2 = MEDIUN Specify)	M GREEN 3 = DARK GREEN (Alderma	an)				
Surface: 1 = SMOO	TH 2 = ROUGH	Surface: 1 = SHINY 2 =					
3 Borne: 1 = SINGL 5 = DOUB	1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE Borne: 5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify)						
0 7 CM. LENGTH		1 3 MM. WIDTH (Between sutures)	0 7 NO. SEEDS PER POD				
9. SEEDS (95-100 Tenderomete	r):						
	GHTGREEN 2≖GREEN 2	= DARK GREEN 4 = OTHER (Specify)					
3 Color: 1 = LI	uni oneciv 2 - Green 3		AVERAGE				
Seive: % 0 7 1 0 2 3 2 3 3 2 0 5 7 8 AVEHAGE 3 7 8							
SEEDS (Dry, Mature):							
Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED							
3 Surface: 1 = SMOO 3 = WRINK	TH 2 = DIMPLED	2 Surface: 1 = SHINY 2	? = DULL				
Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED							
Primary Color: 1 = CREAMY-WHITE 2 = CREAM & GREEN 3 = LIGHT GREEN 4 = MEDIUM GREEN							
5 = DARK GREEN 6 = BLUE-GREEN 7 = YELLOW 8 = BROWN 9 = RED 10 = GRAY 11 = BLACK							
	1 = WHITE 2 = TAN 3 = BLACK	Cotyledon Color: 1 = GREEN	N 2 = YELLOW 3 = ORANGE				
2 1 GRAMS PER 100 SEEDS							
10. DISEASE: (0 = Not Tested;	1 = Susceptible; 2 = Resistant)						
2 FUSARIUM WILT	·	0 NEAR-WILT	DOWNY MILDEW				
0 ASCOCHYTA BLIGHT	r	0 POWDERY MILDEW	0 BACTERIAL BLIGHT				
0 MOSAIC		0 PEA ENATION MOSAIC	O YELLOW BEAN MOSAIC				
O OTHER (Specify)							
11. INSECT: (O= Not Tested; 1	= Susceptible; 2 = Resistant)	<u>: </u>					
0 APHIDS		0 OTHER (Specify)					
12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED							
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY				
Leafiness	Sparkle	Fresh Seed Color	Sprite				
Leaf Color	Sprite	Mature Seed Color	Sprite				
Pod Color	Sprite	Seed Shape	Sprite Sparkle				
Pod Shape COMMENTS:	Sprite	Plant Habit	Dharkte				
COMMENTS.							

Application No. 7500031 Pea, 'Dash'

Exhibit D

'Dash' most closely resembles 'Sprite' but is 15 cm. taller, matures 2 days later and has an average sieve size of 3.68 at 105 TDR compared with 4.00 at 94 TDR for 'Sprite.'

(Signature)

EXHIBIT E

OWNERSHIP

Dash was developed by Dr. W. H. Pierce, retired, a plant breeder employed by Asgrow Seed Company. By agreement between Asgrow Seed Company and employee, all rights to any invention, discovery, or development made by employee while employed by Asgrow Seed Company were assigned to the company, with no rights retained by the employee.